Notice of Allowability	Application No.	Applicant(s)	
	09/664,323	KARASAWA ET AL.	
	Examiner	Art Unit	_
	Susy N Tsang-Foster	1745	
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in) or other appropriate commu IGHTS. This application is s	this application. If not included nication will be mailed in due course. THIS)
1. This communication is responsive to the amendment filed	<u>on 1/6/2004</u> .		
2. $oxed{oxed}$ The allowed claim(s) is/are $\underline{24 ext{-}33}$.			
3. $igotimes$ The drawings filed on <u>18 September 2000 and 11 Decemb</u>	per 2002 are accepted by the	Examiner.	
 4. Acknowledgment is made of a claim for foreign priority una) All b) Some* c) None of the: Certified copies of the priority documents have Certified copies of the priority documents have Copies of the certified copies of the priority documents have Topies of the certified copies of the priority do International Bureau (PCT Rule 17.2(a)). * Certified copies not received: 	e been received. e been received in Application	n No	
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		a reply complying with the requirements	
5. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give			
6. CORRECTED DRAWINGS (as "replacement sheets") mus (a) including changes required by the Notice of Draftspers 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Paper No./Mail Date Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in to the depo	son's Patent Drawing Review s Amendment / Comment or .84(c)) should be written on the header according to 37 CFI sit of BIOLOGICAL MATE	in the Office action of e drawings in the front (not the back) of R 1.121(d). RIAL must be submitted. Note the	
attached Examiner's comment regarding REQUIREMENT	FOR THE DEPOSIT OF BIO	LOGICAL MATERIAL.	
Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. ☐ Interview Su Paper No./I 08), 7. ☑ Examiner's /	ormal Patent Application (PTO-152) mmary (PTO-413), Mail Date Amendment/Comment Statement of Reasons for Allowance	

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EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with William Boshnick on 15 March 2004.

The application has been amended as follows:

IN THE CLAIMS:

Claim 24:

In claim 24, line 14, after "positive electrode collector plate", delete "channel".

Claim 30:

In claim 30, line 16, before "raised", delete the first occurrence of "by".

- 2. Claims 24-33 are allowed. Claims 24 and 30 were amended for grammatical reasons.
- 3. The following is an examiner's statement of reasons for allowance:

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The closest prior art of record, Tsuda et al. (U.S. Pat. No. 4,332,867- See Figures 7 and 8) and Takagaki et al. (U.S. Pat. No. 4,554,227- See Figures 3 and 4) disclose an electrode collector plate comprising two parallel electrode collector plate channels each having raised edges protruding beyond a plane defined by the collector plate. However, these two references do not disclose, teach, or suggest a planar portion extending between adjacent channels of the collector plate (applies to claims 24-28 and 30).

The closest prior art of record, Oweis et al. (U.S. Pat. No. 5,972,532 – See col. 5, lines 45-59 and col. 6, lines 37-38) disclose bent portions that are not uniform in length. However, Oweis et al. do not disclose, teach, or suggest that the bent portions form a uniform, flat end surface at a lateral end of the electrode plate unit (applies to claims 29 and 31-33).

In contrast, Oweis et al. disclose in col. 5, lines 45-57 that a plane can be formed at an angle to the longitudinal axis by making slits in the electrode end deeper at one radial location than another such that the slits could be deeper near the center of the stack and gradually become shallower as they extend to the outer periphery of the electrode stack. Thus, although the bent portions of Oweis et al. are not uniform in length, they do not form a uniform, flat end surface at a lateral end of the electrode plate unit and instead forms an angular surface at a lateral end of the electrode plate unit.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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4. Any inquiry concerning this communication or earlier communications should be directed to examiner Susy Tsang-Foster, Ph.D. whose telephone number is (571) 272-1293. The examiner can normally be reached on Monday through Friday from 9:30 AM to 6:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Patrick Ryan can be reached at (571) 272-1292.

The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

st Susy Isang-Foster

Susy Tsang-Foster Primary Examiner Art Unit 1745